

**EMBEDDED TOROIDAL TRANSFORMERS  
IN CERAMIC SUBSTRATES**

**ABSTRACT OF THE DISCLOSURE**

Method for forming a transformer (118) in a ceramic substrate. The method can include the steps of forming at least one conductive coil (119a, 119b) comprising a plurality of turns about an unfired ceramic toroidal core region (120a, 120b) defined within an unfired ceramic substrate (100). The method can also include the step of co-firing the unfired ceramic toroidal core region (120a, 120b), the unfired ceramic substrate (100), and the conductive coil (119a, 119b) to form an integral ceramic substrate structure with the conductive coil at least partially embedded therein.